

TEAM-B

TOOLS AND TECHNOLOGY USED:

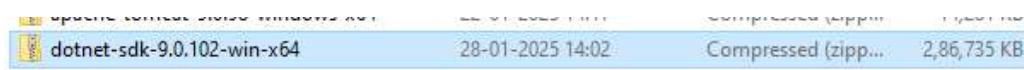
- 1) .NET
- 2) NUGGET

1. DOWNLOAD DOTNET AND PATH SETUP:

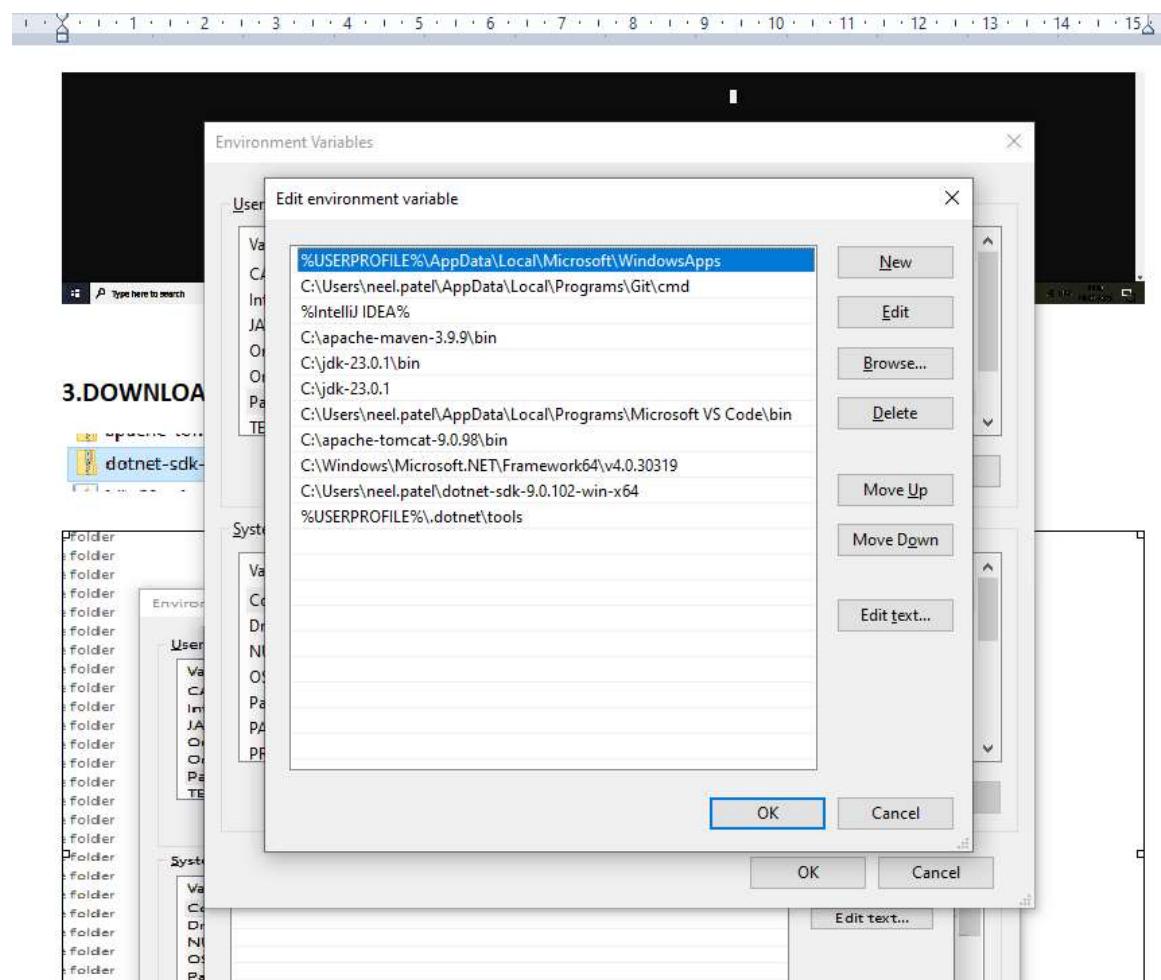
Visit the website: <https://dotnet.microsoft.com/en-us/download>

Download the latest version of it.

Extract the downloaded zip file.



Add the .NET SDK installation path (e.g., C:\Program Files\dotnet) to the system PATH environment variable through System Properties > Environment Variables.



Check the dotnet version using cmd.

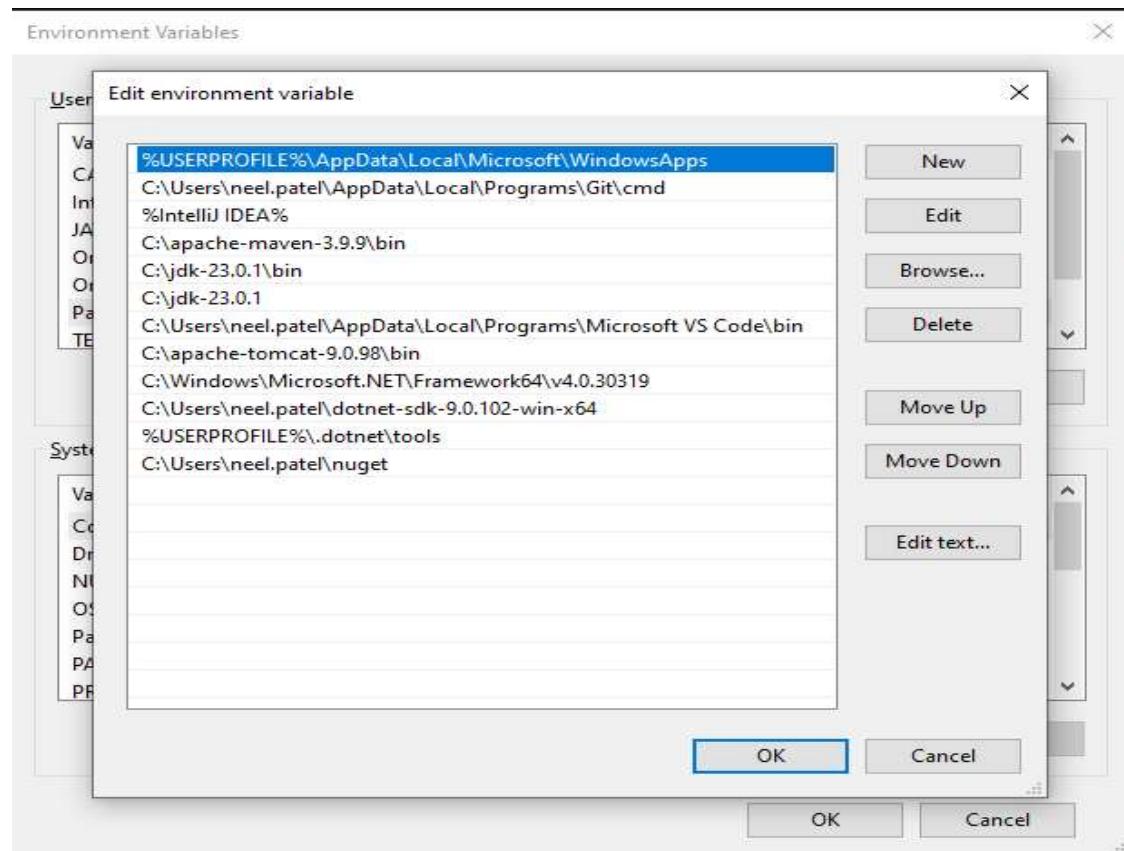
```
C:\Users\neel.patel>dotnet --version  
9.0.102  
C:\Users\neel.patel>
```

2. NUGET DOWNLOAD AND PATH SETUP :

Visit the website: <https://www.nuget.org/downloads>

Download the version you require.

Add the Nuget path (e.g., C:\Program Files\NuGet) to the system PATH environment variable through System Properties > Environment Variables.



Check the Nuget version using cmd.

```
Microsoft Windows [Version 10.0.19045.5371]
(c) Microsoft Corporation. All rights reserved.

C:\Users\hetyl.shah\nuget>nuget
NuGet Version: 6.12.2.1
usage: NuGet <command> [<args>] [<options>]
Type 'NuGet help <command>' for help on a specific command.

Available commands:
  add          Adds the given package to a hierarchical source. http sources are not supported. For more info, goto https://docs.nuget.org/consume/command-line-reference#add-command.
  client-certs Provides the ability to manage list of client certificates located in NuGet.config files
  config        Gets or sets NuGet config values.
  delete        Deletes a package from the server.
  eula          Display NuGet.exe's End User Liscence Agreement (EULA)
  help (?)     Displays general help information and help information about other commands.
  init          Adds all the packages from the <srcPackageSourcePath> to the hierarchical <destPackageSourcePath>. ht tp feeds are not supported. For more info, goto https://docs.nuget.org/consume/command-line-reference #init-command.
  install       Installs a package using the specified sources. If no sources are specified, all sources defined in t he NuGet configuration file are used. If the configuration file specifies no sources, uses the default NuGet feed.
  list          Displays a list of packages from a given source. If no sources are specified, all sources defined in %AppData%\NuGet\NuGet.config are used. If NuGet.config specifies no sources, uses the default NuGet f eed.
  locals        Clears or lists local NuGet resources such as http requests cache, temp cache or machine-wide global packages folder.
  pack          Creates a NuGet package based on the specified nuspec or project file.
  push          Pushes a package to the server and publishes it.
                NuGet's default configuration is obtained by loading %AppData%\NuGet\NuGet.config, then loading any n uget.config or .nuget\Nuget.config starting from root of drive and ending in current directory.
```

3. Github Project Clone and Deploy:

Clone the github project from github using git clone command from the these link:
<https://github.com/themesselection/materio-bootstrap-html-aspnet-core-mvc-admin-template-free.git>

Restore the dotnet project using command “dotnet restore”.

```
C:\Windows\System32\cmd.exe
C:\Users\nawaz.rangari\Desktop\Nawaz\dotnet\materio-bootstrap-html-aspnet-core-mvc-admin-template-free>dotnet restore
  Determining projects to restore...
  All projects are up-to-date for restore.

C:\Users\nawaz.rangari\Desktop\Nawaz\dotnet\materio-bootstrap-html-aspnet-core-mvc-admin-template-free>
```

Build the dotnet project using command “dotnet build”.

```
C:\Windows\System32\cmd.exe
C:\Users\nawaz.rangari\Desktop\Nawaz\dotnet\materio-bootstrap-html-aspnet-core-mvc-admin-template-free>dotnet build
  Determining projects to restore...
  All projects are up-to-date for restore.
    AspNetCoreMvcFull -> C:\Users\nawaz.rangari\Desktop\Nawaz\dotnet\materio-bootstrap-html-aspnet-core-mvc-admin-template-free\bin\Debug\net8.0\AspnetCoreMvcFull.dll

Build succeeded.
  0 Warning(s)
  0 Error(s)

Time Elapsed 00:00:01.20

C:\Users\nawaz.rangari\Desktop\Nawaz\dotnet\materio-bootstrap-html-aspnet-core-mvc-admin-template-free>
```

Create a publish folder using command "dotnet publish -c Release -o ./publish"

```
C:\Users\nawaz.rangari\Desktop\Nawaz\dotnet\materio-bootstrap-html-aspnet-core-mvc-admin-template-free>dotnet publish -c Release -o ./publish
  Determining projects to restore...
  All projects are up-to-date for restore.
C:\Users\nawaz.rangari\Downloads\dotnet-sdk-8.0.405-win-x64\sdk\8.0.405\Current\SolutionFile\ImportAfter\Microsoft.NET.Sdk.Solution.targets(36,5): warning NETSDK1194: The "copying a solution-level output path results in all projects copying outputs to the same directory, which can lead to inconsistent builds. [C:\Users\nawaz.rangari\Desktop\Nawa free\AspnetCoreMvcFull.sln]
  AspNetCoreMvcFull -> C:\Users\nawaz.rangari\Desktop\Nawaz\dotnet\materio-bootstrap-html-aspnet-core-mvc-admin-template-free\bin\Release\net8.0\AspnetCoreMvcFull.dll
  AspNetCoreMvcFull -> C:\Users\nawaz.rangari\Desktop\Nawaz\dotnet\materio-bootstrap-html-aspnet-core-mvc-admin-template-free\publish\
```

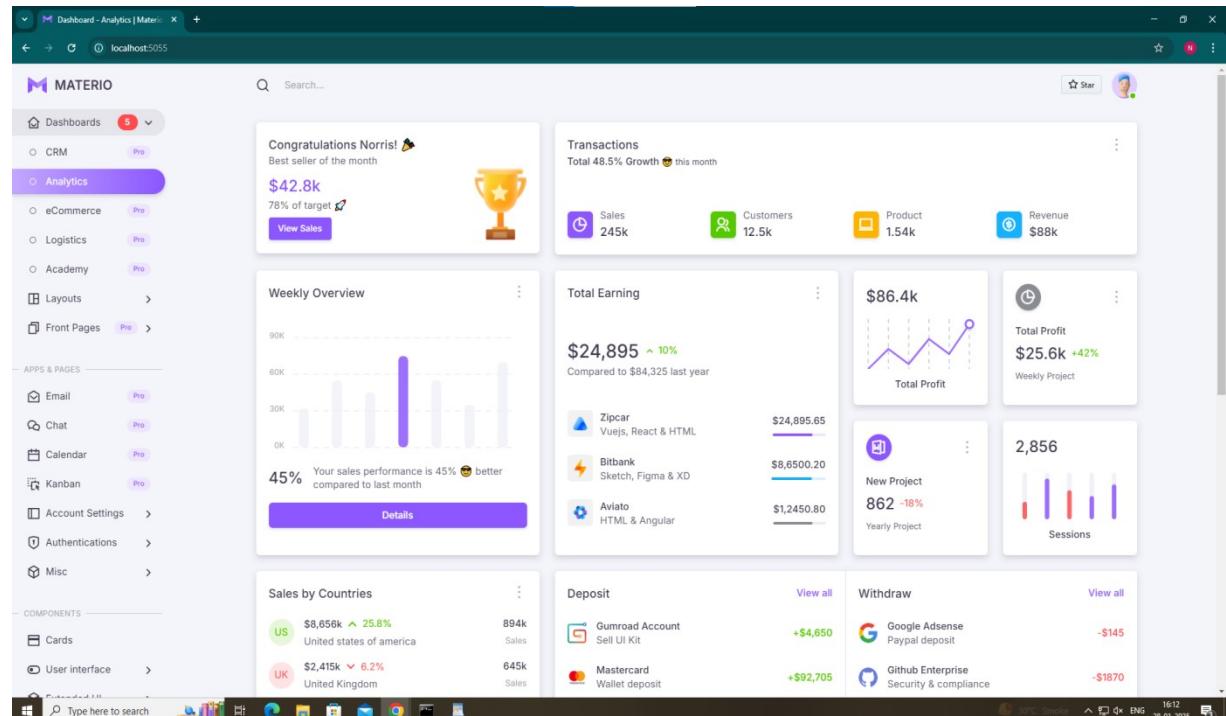
Add Nuget package using this command “dotnet add package Newtonsoft.json”

```
C:\Users\nawaz.rangari\Desktop\Nawaz\dotnet\materio-bootstrap-html-aspnet-core-mvc-admin-template-free>dotnet add package Newtonsoft.json
Determining projects to restore...
Writing C:\Users\nawaz.rangari\AppData\Local\Temp\tmpsyfvhf.tmp
info : X.509 certificate chain validation will use the default trust store selected by .NET for code signing.
info : Adding PackageReference for package 'Newtonsoft.json' into project 'C:\Users\nawaz.rangari\Desktop\Nawaz\dotnet\materio-bootstrap-html-aspnet-core-mvc-admin-template-free\AspnetCoreMvcFull.csproj'.
info : OK https://api.nuget.org/v3/registration5-gz-semver2/newtonsoft.json/index.json 247ms
info : Restoring packages for C:\Users\nawaz.rangari\Desktop\Nawaz\dotnet\materio-bootstrap-html-aspnet-core-mvc-admin-template-free\AspnetCoreMvcFull.csproj...
info : GET https://api.nuget.org/v3/vulnerabilities/index.json
info : OK https://api.nuget.org/v3/vulnerabilities/index.json 396ms
info : GET https://api.nuget.org/v3/vulnerabilities/2025.01.28.05.41.07/vulnerability.base.json
info : OK https://api.nuget.org/v3/vulnerabilities/2025.01.28.05.41.07/vulnerability.update.json 316ms
info : OK https://api.nuget.org/v3/vulnerabilities/2025.01.28.05.41.07/vulnerability.base.json 235ms
info : Package 'Newtonsoft.json' is compatible with all the specified frameworks in project 'C:\Users\nawaz.rangari\Desktop\Nawaz\dotnet\materio-bootstrap-html-aspnet-core-mvc-admin-template-free\AspnetCoreMvcFull.csproj'.
info : PackageReference for package 'Newtonsoft.json' version '13.0.3' added to file 'C:\Users\nawaz.rangari\Desktop\Nawaz\dotnet\materio-bootstrap-html-aspnet-core-mvc-admin-template-free\AspnetCoreMvcFull.csproj'.
info : Writing assets file to disk. Path: C:\Users\nawaz.rangari\Desktop\Nawaz\dotnet\materio-bootstrap-html-aspnet-core-mvc-admin-template-free\obj\project.assets.json
log : Restored C:\Users\nawaz.rangari\Desktop\Nawaz\dotnet\materio-bootstrap-html-aspnet-core-mvc-admin-template-free\AspnetCoreMvcFull.csproj (in 858 ms).
```

Run the project using command “dotnet run”.

```
C:\Users\nawaz.rangari\Desktop\Nawaz\dotnet\materio-bootstrap-html-aspnet-core-mvc-admin-template-free>dotnet run
Building...
info: Microsoft.Hosting.Lifetime[14]
  Now listening on: http://localhost:5055
info: Microsoft.Hosting.Lifetime[0]
  Application started. Press Ctrl+C to shut down.
info: Microsoft.Hosting.Lifetime[0]
  Hosting environment: Development
info: Microsoft.Hosting.Lifetime[0]
  Content root path: C:\Users\nawaz.rangari\Desktop\Nawaz\dotnet\materio-bootstrap-html-aspnet-core-mvc-admin-template-free
warn: Microsoft.AspNetCore.HttpsPolicy.HttpsRedirectionMiddleware[3]
  Failed to determine the https port for redirect.
```

OUTPUT:

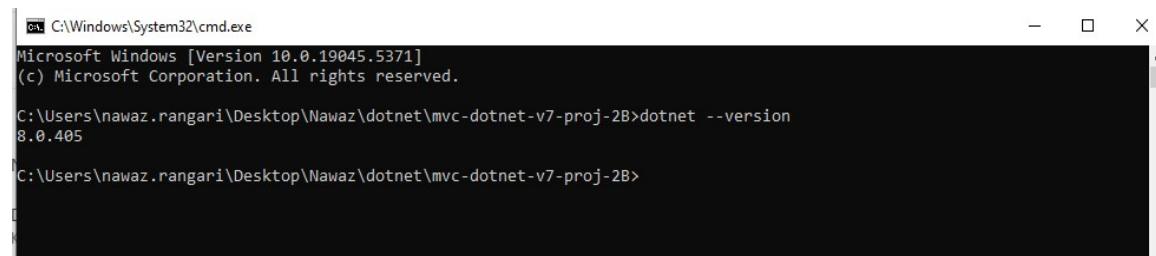


29/01/2025

Task Objective:

Clone the .NET project from GitHub, build it, resolve any errors that arise during the build process, and provide solutions for those errors.

Dotnet Version check

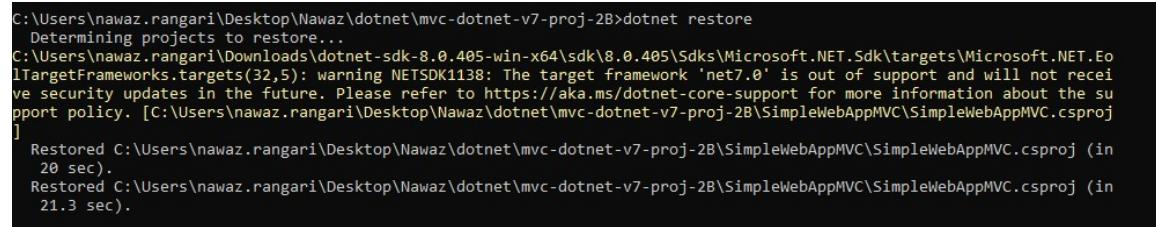


```
C:\Windows\System32\cmd.exe
Microsoft Windows [Version 10.0.19045.5371]
(c) Microsoft Corporation. All rights reserved.

C:\Users\nawaz.rangari\Desktop\Nawaz\dotnet\mvc-dotnet-v7-proj-2B>dotnet --version
8.0.405

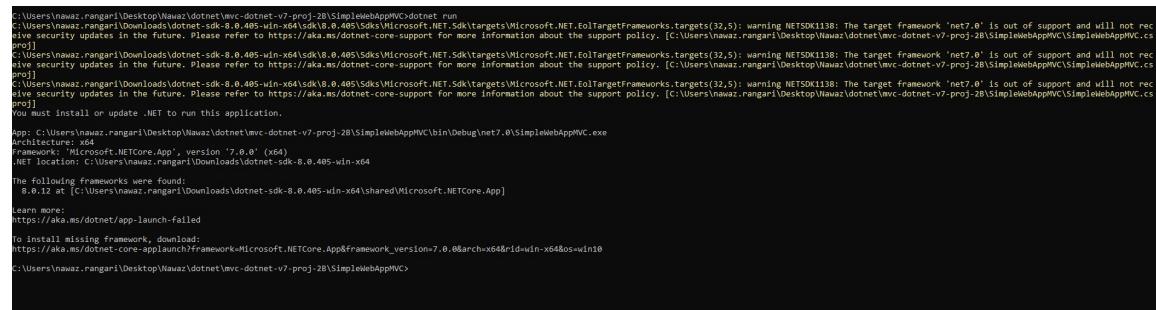
C:\Users\nawaz.rangari\Desktop\Nawaz\dotnet\mvc-dotnet-v7-proj-2B>
```

Dotnet restore with warning of sdk version project v7(used in project) dotnet v8(version we have).



```
C:\Users\nawaz.rangari\Desktop\Nawaz\dotnet\mvc-dotnet-v7-proj-2B>dotnet restore
Determining projects to restore...
C:\Users\nawaz.rangari\Downloads\dotnet-sdk-8.0.405-win-x64\sdk\8.0.405\Sdks\Microsoft.NET.Sdk\targets\Microsoft.NET.EolTargetFrameworks.targets(32,5): warning NETSDK1138: The target framework 'net7.0' is out of support and will not receive security updates in the future. Please refer to https://aka.ms/dotnet-core-support for more information about the support policy. [C:\Users\nawaz.rangari\Desktop\Nawaz\dotnet\mvc-dotnet-v7-proj-2B\SimpleWebAppMVC\SimpleWebAppMVC.csproj]
]
Restored C:\Users\nawaz.rangari\Desktop\Nawaz\dotnet\mvc-dotnet-v7-proj-2B\SimpleWebAppMVC\SimpleWebAppMVC.csproj (in 20 sec).
Restored C:\Users\nawaz.rangari\Desktop\Nawaz\dotnet\mvc-dotnet-v7-proj-2B\SimpleWebAppMVC\SimpleWebAppMVC.csproj (in 21.3 sec).
```

Dotnet run failed version error



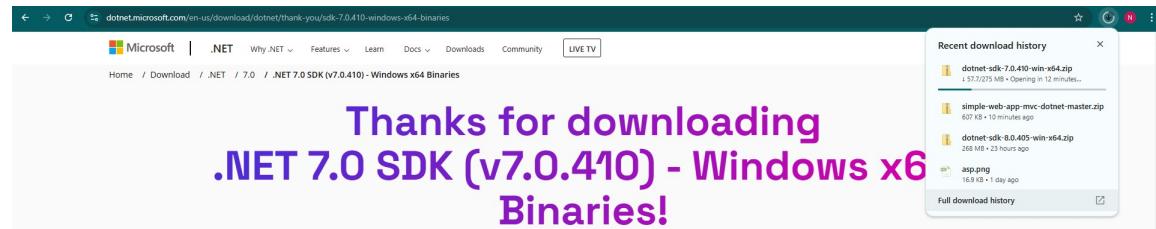
```
C:\Users\nawaz.rangari\Desktop\Nawaz\dotnet\mvc-dotnet-v7-proj-2B>dotnet run
C:\Users\nawaz.rangari\Downloads\dotnet-sdk-8.0.405-win-x64\sdk\8.0.405\Sdks\Microsoft.NET.Sdk\targets\Microsoft.NET.EolTargetFrameworks.targets(32,5): warning NETSDK1138: The target framework 'net7.0' is out of support and will not receive security updates in the future. Please refer to https://aka.ms/dotnet-core-support for more information about the support policy. [C:\Users\nawaz.rangari\Desktop\Nawaz\dotnet\mvc-dotnet-v7-proj-2B\SimpleWebAppMVC\SimpleWebAppMVC.csproj]
C:\Users\nawaz.rangari\Downloads\dotnet-sdk-8.0.405-win-x64\sdk\8.0.405\Sdks\Microsoft.NET.Sdk\targets\Microsoft.NET.EolTargetFrameworks.targets(32,5): warning NETSDK1138: The target framework 'net7.0' is out of support and will not receive security updates in the future. Please refer to https://aka.ms/dotnet-core-support for more information about the support policy. [C:\Users\nawaz.rangari\Desktop\Nawaz\dotnet\mvc-dotnet-v7-proj-2B\SimpleWebAppMVC\SimpleWebAppMVC.csproj]
C:\Users\nawaz.rangari\Downloads\dotnet-sdk-8.0.405-win-x64\sdk\8.0.405\Sdks\Microsoft.NET.Sdk\targets\Microsoft.NET.EolTargetFrameworks.targets(32,5): warning NETSDK1138: The target framework 'net7.0' is out of support and will not receive security updates in the future. Please refer to https://aka.ms/dotnet-core-support for more information about the support policy. [C:\Users\nawaz.rangari\Desktop\Nawaz\dotnet\mvc-dotnet-v7-proj-2B\SimpleWebAppMVC\SimpleWebAppMVC.csproj]
You must install or update .NET to run this application.

App: C:\Users\nawaz.rangari\Desktop\Nawaz\dotnet\mvc-dotnet-v7-proj-2B\SimpleWebAppMVC\bin\Debug\net7.0\SimpleWebAppMVC.exe
Architecture: x64
Framework: Microsoft.NETCore.App, version '7.0.0' (x64)
.NET location: C:\Users\nawaz.rangari\Downloads\dotnet-sdk-8.0.405-win-x64

The following Frameworks were found:
  8.0.12 at [C:\Users\nawaz.rangari\Downloads\dotnet-sdk-8.0.405-win-x64\shared\Microsoft.NETCore.App]

Learn more:
  https://aka.ms/dotnet/app-launch-failed
To install missing framework, download:
  https://aka.ms/dotnet-core-app-launch?framework=Microsoft.NETCore.App&framework_version=7.0.0&arch=x64&rid=win-x64&os=win10
C:\Users\nawaz.rangari\Desktop\Nawaz\dotnet\mvc-dotnet-v7-proj-2B\SimpleWebAppMVC>
```

SDK version 7 download



Version check

```
C:\Windows\System32\cmd.exe
Microsoft Windows [Version 10.0.19045.5371]
(c) Microsoft Corporation. All rights reserved.

C:\Users\nawaz.rangari\Desktop\Nawaz\dotnet\mvc-dotnet-v7-proj-2B\SimpleWebAppMVC>dotnet restore
  Determining projects to restore...
  Restored C:\Users\nawaz.rangari\Desktop\Nawaz\dotnet\mvc-dotnet-v7-proj-2B\SimpleWebAppMVC\SimpleWebAppMVC.csproj (in
  387 ms).
  Restored C:\Users\nawaz.rangari\Desktop\Nawaz\dotnet\mvc-dotnet-v7-proj-2B\SimpleWebAppMVC\SimpleWebAppMVC.csproj (in
  565 ms).

C:\Users\nawaz.rangari\Desktop\Nawaz\dotnet\mvc-dotnet-v7-proj-2B\SimpleWebAppMVC>
```

Without error restore project

```
C:\Windows\System32\cmd.exe
Microsoft Windows [Version 10.0.19045.5371]
(c) Microsoft Corporation. All rights reserved.

C:\Users\nawaz.rangari\Desktop\Nawaz\dotnet\mvc-dotnet-v7-proj-2B\SimpleWebAppMVC>dotnet restore
  Determining projects to restore...
  Restored C:\Users\nawaz.rangari\Desktop\Nawaz\dotnet\mvc-dotnet-v7-proj-2B\SimpleWebAppMVC\SimpleWebAppMVC.csproj (in
  387 ms).
  Restored C:\Users\nawaz.rangari\Desktop\Nawaz\dotnet\mvc-dotnet-v7-proj-2B\SimpleWebAppMVC\SimpleWebAppMVC.csproj (in
  565 ms).

C:\Users\nawaz.rangari\Desktop\Nawaz\dotnet\mvc-dotnet-v7-proj-2B\SimpleWebAppMVC>
```

Build Success

```
C:\Users\nawaz.rangari\Desktop\Nawaz\dotnet\mvc-dotnet-v7-proj-2B\SimpleWebAppMVC>dotnet build
MSBuild version 17.7.6+77d58ec69 for .NET
  Determining projects to restore...
  All projects are up-to-date for restore.

  Bundler: Begin processing bundleconfig.json
  Bundler: Done processing bundleconfig.json
  SimpleWebAppMVC -> C:\Users\nawaz.rangari\Desktop\Nawaz\dotnet\mvc-dotnet-v7-proj-2B\SimpleWebAppMVC\bin\Debug\net7.0\SimpleWebAppMVC.dll

Build succeeded.
  0 Warning(s)
  0 Error(s)

Time Elapsed 00:00:01.37

C:\Users\nawaz.rangari\Desktop\Nawaz\dotnet\mvc-dotnet-v7-proj-2B\SimpleWebAppMVC>
```

Project publish: dotnet publish -c Release -o ./publish

```
C:\Users\nawaz.rangari\Desktop\Nawaz\dotnet\mvc-dotnet-v7-proj-2B\SimpleWebAppMVC>dotnet publish -c Release -o ./publish
MSBuild version 17.7.6+77d58ec69 for .NET
  Determining projects to restore...
  All projects are up-to-date for restore.

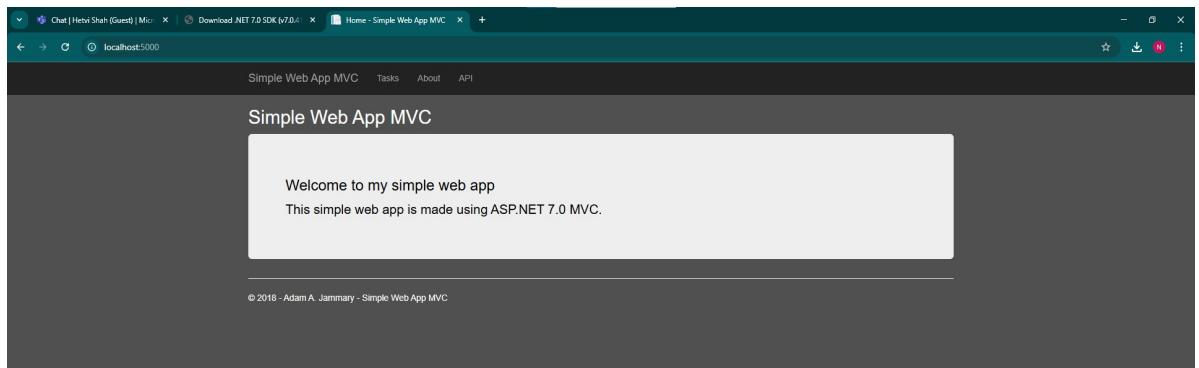
  Bundler: Begin processing bundleconfig.json
  Bundler: Done processing bundleconfig.json
  SimpleWebAppMVC -> C:\Users\nawaz.rangari\Desktop\Nawaz\dotnet\mvc-dotnet-v7-proj-2B\SimpleWebAppMVC\bin\Release\net7.0\SimpleWebAppMVC.dll
  SimpleWebAppMVC -> C:\Users\nawaz.rangari\Desktop\Nawaz\dotnet\mvc-dotnet-v7-proj-2B\SimpleWebAppMVC\publish\

C:\Users\nawaz.rangari\Desktop\Nawaz\dotnet\mvc-dotnet-v7-proj-2B\SimpleWebAppMVC>
```

Run the project file

```
C:\Windows\System32\cmd.exe - dotnet run
C:\Users\nawaz.rangari\Desktop\Nawaz\dotnet\mvc-dotnet-v7-proj-2B\SimpleWebAppMVC>dotnet run
fail: SimpleWebAppMVC.Program[0]
An error occurred creating the DB.
System.InvalidOperationException: The ConnectionString property has not been initialized.
  at Microsoft.Data.SqlClient.SqlConnection.PermissionDemand()
  at Microsoft.Data.SqlClient.SqlConnectionFactory.PermissionDemand(DbConnection outerConnection)
  at Microsoft.Data.ProviderBase.DbConnectionInternal.TryOpenConnectionInternal(DbConnection outerConnection, DbConnectionFactory connectionFactory, Boolean async, CancellationToken cancellationToken, DbConnectionOptions userOptions, DbConnectionOverrides overrides)
  at Microsoft.Data.SqlClient.SqlConnection.Open(TaskCompletionSource`1 retry, SqlConnectionOverrides overrides)
  at Microsoft.Data.SqlClient.SqlConnection.Open(Boolean errorsExpected)
  at Microsoft.EntityFrameworkCore.Storage.Internal.SqlServerConnection.OpenDbConnection(Boolean errorsExpected)
  at Microsoft.EntityFrameworkCore.Storage.RelationalConnection.OpenInternal(Boolean errorsExpected)
  at Microsoft.EntityFrameworkCore.Storage.RelationalConnection.Open(Boolean errorsExpected)
  at Microsoft.EntityFrameworkCore.Storage.RelationalDatabaseCreator.<>c__DisplayClass18_0.<Exists>b__0(DateTime giveUp)
  at Microsoft.EntityFrameworkCore.ExecutionStrategyExtensions.<>c__DisplayClass12_0`2.<Execute>b__0(DbContext _ , TState s)
  at Microsoft.EntityFrameworkCore.ExecutionStrategyExtensions.Execute[TState,TResult](TState state, Func`3 operation, Func`2 resultSelector)
  at Microsoft.EntityFrameworkCore.Storage.Internal.SqlServerDatabaseCreator.Exists(Boolean retryOnNonExists)
  at Microsoft.EntityFrameworkCore.Storage.RelationalDatabaseCreator.EnsureCreated()
  at Microsoft.EntityFrameworkCore.Infrastructure.DatabaseFacade.EnsureCreated()
  at SimpleWebAppMVC.Program.Main(String[] args) in C:\Users\nawaz.rangari\Desktop\Nawaz\dotnet\mvc-dotnet-v7-proj-2B\SimpleWebAppMVC\Program.cs
Hosting environment: Production
Content root path: C:\Users\nawaz.rangari\Desktop\Nawaz\dotnet\mvc-dotnet-v7-proj-2B\SimpleWebAppMVC
Now listening on: http://localhost:5000
Application started. Press Ctrl+C to shut down.
```

OUTPUT:



Add Nuget package: dotnet add package <package name>

```
<Project Sdk="Microsoft.NET.Sdk.Web">
  <ItemGroup>
    <ItemGroup>
      <PackageReference Include="BuildBundlerMinifier" Version="2.2.449" />
      <PackageReference Include="Microsoft.EntityFrameworkCore" Version="7.0.0" />
      <PackageReference Include="Microsoft.EntityFrameworkCore.Design" Version="7.0.0" />
      <PrivateAssets>all</PrivateAssets>
      <IncludeAssets>runtime; build; native; contentfiles; analyzers; buildtransitive</IncludeAssets>
    </ItemGroup>
    <PackageReference Include="Microsoft.EntityFrameworkCore.Relational" Version="7.0.0" />
    <PackageReference Include="Microsoft.EntityFrameworkCore.SqlServer" Version="7.0.0" />
    <PackageReference Include="Microsoft.VisualStudio.Web.BrowserLink" Version="2.2.0" />
    <PackageReference Include="Newtonsoft.Json" Version="13.0.3" />
    <PackageReference Include="NSwag.AspNetCore" Version="13.18.0" />
    <PackageReference Include="Pomelo.EntityFrameworkCore.MySql" Version="7.0.0-alpha.1" />
  </ItemGroup>
</Project>
```

```
C:\Users\nawaz.rangari\Desktop\Nawaz\dotnet\mvc-dotnet-v7-proj-2B\SimpleWebAppMVC>dotnet add package Newtonsoft.Json
Determining projects to restore...
In file C:\Users\nawaz.rangari\Desktop\Nawaz\dotnet\mvc-dotnet-v7-proj-2B\SimpleWebAppMVC\SimpleWebAppMVC.csproj
info : X.509 certificate validation will use the default trust store selected by .NET for code signing.
info : X.509 certificate chain validation will use the default trust store selected by .NET for timestamping.
info : Adding PackageReference for package 'Newtonsoft.Json' into project 'C:\Users\nawaz.rangari\Desktop\Nawaz\dotnet\mvc-dotnet-v7-proj-2B\SimpleWebAppMVC\SimpleWebAppMVC.csproj'.
Info : OK https://api.nuget.org/v3/index.json
Info : Restoring packages for C:\Users\nawaz.rangari\Desktop\Nawaz\dotnet\mvc-dotnet-v7-proj-2B\SimpleWebAppMVC\SimpleWebAppMVC.csproj...
Info : Package 'Newtonsoft.Json' is compatible with all the specified frameworks in project 'C:\Users\nawaz.rangari\Desktop\Nawaz\dotnet\mvc-dotnet-v7-proj-2B\SimpleWebAppMVC\SimpleWebAppMVC.csproj'.
Info : PackageReference for package 'Newtonsoft.Json' version '13.0.3' added to file 'C:\Users\nawaz.rangari\Desktop\Nawaz\dotnet\mvc-dotnet-v7-proj-2B\SimpleWebAppMVC\SimpleWebAppMVC.csproj'.
Info : Generating #defines file C:\Users\nawaz.rangari\Desktop\Nawaz\dotnet\mvc-dotnet-v7-proj-2B\SimpleWebAppMVC\SimpleWebAppMVC.csproj.nuget.g.props.
Info : Writing assets file to disk. Path: C:\Users\nawaz.rangari\Desktop\Nawaz\dotnet\mvc-dotnet-v7-proj-2B\SimpleWebAppMVC\SimpleWebAppMVC.csproj\project.assets.json
Log : Restored C:\Users\nawaz.rangari\Desktop\Nawaz\dotnet\mvc-dotnet-v7-proj-2B\SimpleWebAppMVC\SimpleWebAppMVC.csproj (In 29 ms).

C:\Users\nawaz.rangari\Desktop\Nawaz\dotnet\mvc-dotnet-v7-proj-2B\SimpleWebAppMVC>dotnet add package Newtonsoft.Json
```

Remove Nuget Package:dotnet remove package <package name>

The screenshot shows the Visual Studio IDE with the 'SimpleWebAppMVCSproj' solution open. In the 'SimpleWebAppMVCSproj' folder, the 'SimpleWebAppMVCS.csproj' file is selected. The code editor displays the project's XML configuration. A command prompt window is visible at the bottom, showing the execution of the dotnet remove package command for the 'Newtonsoft.Json' package.

```
dotnet remove package Newtonsoft.Json
```

SqlClient Package installation Using Nuget : nuget install <package name>

The screenshot shows a terminal window with the output of the 'nuget install Microsoft.Data.SqlClient' command. The process shows the download and resolution of dependencies for the specified package version.

```
at NuGet.CommandLine.Program.MainCore(String workingDirectory, String[] args)
C:\Users\hetvi.shah\super-heroes-dotnet-8-web-api>nuget install Microsoft.Data.SqlClient
Downloads:
https://api.nuget.org/v3/index.json
Attempting to gather dependency information for package 'Microsoft.Data.SqlClient' to 'C:\Users\hetvi.shah\super-heroes-dotnet-8-web-api'.
GET https://api.nuget.org/v3/registration-gz-semer2/microsoft.data.sqlclient/index.json
OK https://api.nuget.org/v3/registration-gz-semer2/microsoft.data.sqlclient/index.json 434ms

Attempting to resolve dependencies for package 'Microsoft.Data.SqlClient' to 'Any,Version=v0.0'.
Gathering dependency information took 11.05 sec
Resolving dependency information took 0 ms
Resolving actions to install package 'Microsoft.Data.SqlClient' to 'Any,Version=v0.0'.
Resolved actions to install package 'Microsoft.Data.SqlClient' to 'Any,Version=v0.0'.
GET https://api.nuget.org/v3-flatcontainer/microsoft.bcl.crypto/8.0.0/microsoft.data.sqlclient.sni.6.0.2.nupkg
GET https://api.nuget.org/v3-flatcontainer/microsoft.bcl.crypto/8.0.0/microsoft.bcl.crypto/8.0.0.nupkg
GET https://api.nuget.org/v3-flatcontainer/microsoft.identitymodel.abstractions/7.5.0/microsoft.identitymodel.abstractions/7.5.0.nupkg
GET https://api.nuget.org/v3-flatcontainer/microsoft.diagnosticsource/8.0.1/system.diagnostics.diagnosticsource/8.0.1.nupkg
GET https://api.nuget.org/v3-flatcontainer/microsoft.identitymodel.logging/4.6.1/microsoft.identitymodel.logging/4.6.1.nupkg
GET https://api.nuget.org/v3-flatcontainer/microsoft.identityclient/4.6.1/microsoft.identity.client/4.6.1.nupkg
OK https://api.nuget.org/v3-flatcontainer/microsoft.diagnosticsource/8.0.1/system.diagnostics.diagnosticresource/8.0.1.nupkg 10ms
OK https://api.nuget.org/v3-flatcontainer/microsoft.identitymodel.abstractions/7.5.0/microsoft.identitymodel.abstractions/7.5.0.nupkg 49ms
OK https://api.nuget.org/v3-flatcontainer/microsoft.bcl.crypto/8.0.0/microsoft.bcl.crypto/8.0.0.nupkg 72ms
OK https://api.nuget.org/v3-flatcontainer/microsoft.identityclient/4.6.1.3/microsoft.identity.client/4.6.1.3.nupkg 72ms
Installed Microsoft.IdentityModel.Abstraction v7.5.0 with content hash seOPaBQH2K683eFuJauOsr02XbOa+SvXR1+su7kl+ZymuQzmmkYfHmQapB8mOXInJx7xFzD2H9Nlae
Installed Microsoft.Bcl.Cryptography v8.0.0 with content hash Y37c7CSXH0GF0nhjF1/95YF320FEfKnQKg/dGf9HN18yjQj2owHITGFNS3VLMQwQz
GET https://api.nuget.org/v3-flatcontainer/system.security.cryptography.pcks/8.0.1/system.security.cryptography.pcks/8.0.1.nupkg
Installed Microsoft.IdentityModel.Logging v7.5.0 from https://api.nuget.org/v3/index.json to C:\Users\hetvi.shah\.nuget\packages\microsoft.bcl.crypto\8.0.0 with content hash 3BIn2EajJvnTDP/YRrmJ3Fyu8XAMwR9jG+3fkhhzRJJY1tVL+BEH9
Install Microsoft.Bcl.AsyncInterfaces v8.0.0 from https://api.nuget.org/v3/index.json to C:\Users\hetvi.shah\.nuget\packages\microsoft.identitymodel.logging\7.5.0 with content hash 3BIn2EajJvnTDP/YRrmJ3Fyu8XAMwR9jG+3fkhhzRJJY1tVL+BEH9
GET https://api.nuget.org/v3-flatcontainer/microsoft.bcl.asyncinterfaces/8.0.0/microsoft.bcl.asyncinterfaces.8.0.0.nupkg
GET https://api.nuget.org/v3-flatcontainer/microsoft.bcl.asyncinterfaces/8.0.0/microsoft.bcl.asyncinterfaces.8.0.0.nupkg
Installed System.Diagnostics.DiagnosticSource v8.0.1 from https://api.nuget.org/v3/index.json to C:\Users\hetvi.shah\.nuget\packages\microsoft.diagnostics.diagnosticsource\8.0.1 with content hash va0Wjk1aenR2XdjajViVlCV9fAdfgyHw5bzTxT23qaE
GET https://api.nuget.org/v3-flatcontainer/microsoft.extensions.dependencyinjection.abstractions/8.0.2/microsoft.extensions.dependencyinjection.abstractions/8.0.2.nupkg
OK https://api.nuget.org/v3-flatcontainer/microsoft.extensions.dependencyinjection.abstractions/8.0.2/microsoft.extensions.dependencyinjection.abstractions/8.0.2.nupkg 30ms
OK https://api.nuget.org/v3-flatcontainer/microsoft.bcl.asyncinterfaces/8.0.0/microsoft.bcl.asyncinterfaces.8.0.0.nupkg 30ms
Installed Microsoft.Identity.Client v4.61.3 with content hash m30/qM3Ca0xpSutcw+R8u8Ztlz2ALhS+gkEkOYQloazfCQmWt4N/FRHzd1lm8wQz0pmQca0bxSodA=
GET https://api.nuget.org/v3-flatcontainer/microsoft.extensions.logging.abstractions/8.0.2/microsoft.extensions.logging.abstractions/8.0.2.nupkg
OK https://api.nuget.org/v3-flatcontainer/system.security.cryptography.prkc/8.0.1/system.security.cryptography.prkc/8.0.1.nupkg 12ms
Installed Microsoft.Bcl.AsyncInterface v8.0.0 from https://api.nuget.org/v3/index.json to C:\Users\hetvi.shah\.nuget\packages\microsoft.bcl.asyncinterfaces\8.0.0 with content hash 3Wb0q9yvqlp222P3x1wYGDakpJaku8MuuaQv22g6L67a10Ld01rV57HtzJfLNGSPu94y1r3qHkHkw=
GET https://api.nuget.org/v3-flatcontainer/microsoft.valuetuple/4.0.0/system.valuetuple/4.0.0/microsoft.valuetuple/4.0.0.nupkg
Installed Microsoft.Identity.Client.Extensions.Msal v4.61.3 from https://api.nuget.org/v3/index.json to C:\Users\hetvi.shah\.nuget\packages\microsoft.identity.client.extensions.msal\4.61.3 with content hash PmWJcznr5Gr25Mw8ajlc2XIDu4zCfuB0J0kpNLwLgdMgPcpSu9mLdgMzCH8n0jy0sWfL2HjGdw=.
GET https://api.nuget.org/v3-flatcontainer/microsoft.extensions.options/8.0.2/microsoft.extensions.options/8.0.2.nupkg
Install Microsoft.Extensions.Options v8.0.2 from https://api.nuget.org/v3/index.json to C:\Users\hetvi.shah\.nuget\packages\microsoft.data.sqlclient.sni\6.0.2 with content hash p3Pm+7PSn+A4t6vKrttRqJ0Udrce3oZln@0xEx729DTTQlriUVzQy5uifdWeby1ay0BY#W07oSt1ctQa=.
GET https://api.nuget.org/v3-flatcontainer/microsoft.extensions.caching.memory/8.0.1/microsoft.extensions.caching.memory/8.0.1.nupkg
OK https://api.nuget.org/v3-flatcontainer/system.valuetuple/4.5.0/system.valuetuple/4.5.0.nupkg 99ms
OK https://api.nuget.org/v3-flatcontainer/microsoft.extensions.caching.memory/8.0.1/microsoft.extensions.caching.memory/8.0.1.nupkg 20ms
OK https://api.nuget.org/v3-flatcontainer/microsoft.extensions.logging.abstractions/8.0.2/microsoft.extensions.logging.abstractions/8.0.2.nupkg 101ms
OK https://api.nuget.org/v3-flatcontainer/microsoft.extensions.options/8.0.2/microsoft.extensions.options/8.0.2.nupkg 91ms
Installed Microsoft.Extensions.DependencyInjection v3.0.2 from https://api.nuget.org/v3/index.json to C:\Users\hetvi.shah\.nuget\packages\microsoft.extensions.dependencyinjection.abstractions\8.0.2 with content hash jI1TUEf7W0
```